

CLAIMS

What is claimed and desired to be secured by Letters Patent is as follows:

1. A method of component-based systems development for producing a computer software application for storing data and accessing, processing, and outputting the data comprising:
 - a. identifying and modeling one or more business processes with one or more steps to each said business process; and identifying business data relating to each step;
 - b. designing and creating one or more independent set of software services with each said service corresponding to a respective business process;
 - c. designing and creating at least one database for storing the business data; said database being shared by said software services;
 - d. using one or more computer software applications to access and process the data through the components; and
 - e. using an interactive electronic terminal to allow a user to access and operate the software applications and access the business data.
2. A method of component-based systems development for producing a computer software application for storing data and accessing, processing, and outputting the data, comprising:
 - a. initiation;
 - b. visualization;
 - c. specification;

- d. design; and
- e. implementation.

3. The method defined in Claim 2 wherein said implementation step includes building and delivering an application.

4. A method of providing data and information comprising:

- a. providing an application by:
 - providing a facet,
 - providing a hub, and
 - accessing the hub from the facet; and
 - providing a component by producing computer software for storing data and accessing, processing, and outputting the data which comprises steps of identifying and modeling one or more business processes with one or more steps to each said business process; and identifying business data relating to each step,
 - designing and creating one or more independent set of software services with each said service corresponding to a respective business process, and designing and creating at least one database for storing the business data; said database being shared by said software services.

5. The method defined in Claim 4 further including a step of providing a plurality of components.

6. The method defined in Claim 5 further including a step of providing communication between the hub and each of the plurality of components.
7. The method defined in Claim 6 further including a step of providing a plurality of hubs.
8. The method defined in Claim 7 further including a step of providing communication between each hub and each component.
9. The method defined in Claim 1 wherein the step of identifying business data further includes a step of using legacy systems.
10. The method defined in Claim 9 wherein the step of using legacy systems further includes a step of modularizing each legacy system.
11. A method of performing computer-based system development using only data from a known project.
12. The method defined in Claim 11 further including a step of visualization which includes a step of developing application slices.
13. The method defined in Claim 12 further including a step of identifying legacy systems.

14. The method defined in Claim 13 further including a step of specification.
15. The method defined in Claim 14 further including a step of design which includes modularizing legacy systems.
16. The method defined in Claim 15 further including a step of insulating legacy systems.
17. The method defined in Claim 16 further including a step of implementation.
18. The method defined in Claim 17 further including a step of providing a facet.
19. The method defined in Claim 18 further including a step of providing a hub communicating with the facet.
20. The method defined in Claim 19 further including a step of providing a component communicating with the hub.
21. The method defined in Claim 20 further including a step of providing a plurality of components and further including a step of establishing communication between each of the components and the hub.

22. The method defined in Claim 21 further including a step of providing a plurality of components and further including a step of establishing communication between each of the components and one or more hubs.

23. The method defined in Claim 22 further including a step of providing each component with one or more services.

24. The method defined in Claim 23 further including a step of having each service represent an end result.

25. The method defined in Claim 22 further including a step of separating some components from other components.

26. The method defined in Claim 12 further including a step of defining each application slice to contain a single component.

27. The method defined in Claim 15 further including a step of insulating modularized systems.

28. The method defined in Claim 17 wherein the step of insulating the modularized systems further includes a step of providing a wrapper to encapsulate each modularized system.

29. The method defined in Claim 28 further including a step of accessing modularized legacy systems via external action blocks.

30. A method of component-based systems development comprising:

- providing a plurality of facets;
- providing a plurality of hubs;
- establishing communication between each hub and one of the plurality of facets;
- providing a plurality of components;
- establishing communication between each component and each hub; and
- producing computer software for storing data and accessing, processing and outputting data by producing a computer software application for storing data and accessing, processing and outputting data and which comprises the steps of:

- identifying and modeling one or more business processes with one or more steps to each said business process and identifying business data relating to each step,
- designing and creating one or more independent set of software services with each said service corresponding to a respective business process, and
- designing and creating at least one database for storing the business data; said database being shared by said software services.

31. The method defined in Claim 30 further including a step of wherein the step of producing computer software includes using only data from a known project.

32. The method defined in Claim 31 further including a step of providing each component with a plurality of services.

33. The method defined in Claim 32 wherein the step of identifying business data further includes a step of using legacy systems.

34. The method defined in Claim 33 wherein the step of using legacy systems further includes a step of modularizing each legacy system.

35. The method defined in Claim 34 further including a step of visualization which includes a step of developing application slices.

36. The method defined in Claim 35 further including a step of modularizing legacy systems.

37. The method defined in Claim 36 further including a step of insulating legacy systems.

38. The method defined in Claim 2 further including a step of developing a class diagram.

39. The method defined in Claim 38 further including a step of freezing the class diagram during specification.

40. The method defined in Claim 39 further including a step of developing detailed requirements for an application during specification.

41. The method defined in Claim 14 further including a specification step.

42. The method defined in Claim 41 further including defining a slice during specification.

38. The method defined in Claim 30 wherein the step of producing computer software includes using only data from a known project.

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